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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,340	04/14/2005	Laurent Regnier	S1022.81221US00	5057
⁴⁶³²⁹ STMicroelectr	7590 10/29/200 onics Inc.	7	EXAMINER	
c/o WOLF, GREENFIELD & SACKS, P.C. 600 Atlantic Avenue			MASKULINSKI, MICHAEL C	
	Avenue 1A 02210-2206		ART UNIT	PAPER NUMBER
		·	2113	
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			10/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/531,340	REGNIER, LAURENT			
Office Action Summary	Examiner	Art Unit			
	Michael Maskulinski	2113			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a reprise of the community of t	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status [`]					
1) Responsive to communication(s) filed on 1	4 April 2005.				
·— ·	,				
3) Since this application is in condition for allo					
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-10</u> is/are pending in the applicat	tion.				
4a) Of the above claim(s) is/are with	drawn from consideration.				
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>1-3 and 5-9</u> is/are rejected.					
7) Claim(s) <u>4 and 10</u> is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam					
10)⊠ The drawing(s) filed on 14 April 2005 is/are					
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co					
	e Examiner. Note the attached				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) All b) Some * c) None of:	aanta haya baan rasaiyad				
1. Certified copies of the priority docum2. Certified copies of the priority docum		onlication No			
2. Certified copies of the priority docum3. Copies of the certified copies of the					
application from the International Bu		, occorde in time stational stage			
* See the attached detailed Office action for a		received.			
Attachment(s)	_				
1) Notice of References Cited (PTO-892)		ummary (PTO-413) s)/Mail Date			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) Notice of Ir	nformal Patent Application			
Paper No(s)/Mail Date <u>4/14/05</u> .	6)	_			

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Non-Final Office Action

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 and 5-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Shah et al., U.S. Patent 6,148,437.

Referring to claim 1:

- a. In column 2, lines 55-57, Shah et al. disclose that the present invention is a jump-evaluating trace designator that includes an original instruction processor (A method for transmitting digital messages through output terminals of a monitoring circuit integrated to a microprocessor on execution of an instruction sequence by the microprocessor, each digital message being representative of characteristic data stored by the monitoring circuit on detection of a specific event from among several specific events in the execution of the instruction sequence, one of said data corresponding to an identifier of said specific event).
- b. In column 6, lines 62-65, Shah et al, disclose that the backpatch manager examines a trace after it has been translated to determine if any other previously translated trace has a jump instruction that jumps to the newly translated trace (comparing the characteristic stored data of the last two detected specific events corresponding to a same identifier).

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- c. In column 4, line 67 continued in column 5, lines 1-3, Shah et al. disclose that the start-end designator designates a jump instruction to be the end of the trace if the number of times that control has passed through it reaches a predetermined end-trace threshold (if the compared data are identical, incrementing a repetition counter associated with said specific event).
- d. In column 12, lines 43-48, Shah et al. disclose that if there is no match between the unique identifier of the current original instruction and any entry in a column, driver in a known manner creates a new original instruction record by creating a new row of entries in instruction data structure (and if the compared data are different, transmitting a digital message representative of the data characteristic of the last detected specific event and, further, if the content of the repetition counter associated with said specific event is different from zero, transmitting a digital message indicating a repetition of the specific event).

Referring to claim 2, in column 4, line 67 continued in column 5, lines 1-3, Shah et al. disclose that the start-end designator designates a jump instruction to be the end of the trace if the number of times that control has passed through it reaches a predetermined end-trace threshold (the digital message indicating a repetition of the specific event comprises the content of the repetition counter associated with said specific event).

Referring to claim 3, in column 5, lines 49-51, Shah et al. discloses that if such a counter reaches the end-trace threshold for the associated type of jump instruction, the trace is ended (comprising resetting the repetition counter associated with said specific

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event after transmission of a digital message indicating a repetition of the specific event).

Referring to claim 5, in column 2, lines 55-57, Shah et al. disclose a. jump-evaluating trace (the specific event is a jump in the instruction sequence executed by the microprocessor).

Referring to claim 6, in column 19, lines 11-16, Shah et al. disclose that the start-trace manager records the starting original instruction address of the trace that has been started (in which the characteristic stored data comprise data representative of the address of the destination instruction of the last detected jump).

Referring to claim 7, in column 2, lines 55-57, Shah et al. disclose a jumpevaluating trace. A jump instruction is inherently a read or write operation in a computer system.

Referring to claim 8, in column 5, lines 49-51, Shah et al. discloses that if such a counter reaches the end-trace threshold for the associated type of jump instruction, the trace is ended (transmitting a digital message indicating a repetition of the specific event if the content of the repetition counter associated with said specific event is greater than a determined threshold; and setting the repetition counter associated with said specific event to zero).

Referring to claim 9:

a. In column 2, lines 55-57, Shah et al. disclose that the present invention is a jump-evaluating trace designator that includes an original instruction processor (A device for transmitting digital messages between a monitoring circuit (--l-g)

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integrated to with a microprocessor (-1-:2--) and an analysis tool (--2-4-), on execution of an instruction sequence by the microprocessor, comprising: a--means for detecting a specific event from among several specific events in the execution of the instruction sequence; a-means for storing data characteristic of the detected specific event, one of said characteristic data corresponding to an identifier of the specific event; and a--means for transmitting a digital message representative of the memorized stored characteristic data).

- b. In column 6, lines 62-65, Shah et al, disclose that the backpatch manager examines a trace after it has been translated to determine if any other previously translated trace has a jump instruction that jumps to the newly translated trace (means for comparing characteristic data of the last two detected specific events corresponding to a same identifier).
- c. In column 4, line 67 continued in column 5, lines 1-3, Shah et al. disclose that the start-end designator designates a jump instruction to be the end of the trace if the number of times that control has passed through it reaches a predetermined end-trace threshold (means for incrementing a repetition counter associated with said specific event when the comparison means provides a signal indicating that the compared data are identical).
- d. In column 12, lines 43-48, Shah et al. disclose that if there is no match between the unique identifier of the current original instruction and any entry in a column, driver in a known manner creates a new original instruction record by creating a new row of entries in instruction data structure (and in that the

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transmission means is capable of transmitting a message representative of the data characteristic of the last detected specific event when the comparison means provides a signal indicating that the compared data are different and, further, of transmitting a digital message indicating a repetition of the specific event when the incrementation means provides a signal indicating that the content of the repetition counter associated with said specific event is different from zero).

Allowable Subject Matter

3. Claims 4 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art is related to tracing of programs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Maskulinski whose telephone number is 571-272-3649. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on 571-272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C Maskulinski Primary Examiner

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